

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions, and listings, of claims in this application:

1. (Currently Amended) An occlusion device ~~consisting~~ comprising of
a braiding of thin wires or threads given a suitable form by ~~means of~~ a molding and heat
treatment procedure, having a proximal retention area and a distal retention area,
a holder disposed in the distal retention area, wherein ~~whereby~~ the ends of the wires or
threads converge therein ~~into a holder in the distal retention area, and having~~
a cylindrical crosspiece interposed between said proximal and distal retention areas,
whereby the two retention areas are positioned on the two sides of a shunt to be occluded
in a septum by ~~means of~~ an intravascular surgical procedure while ~~a~~ the crosspiece transverses
the shunt, and
wherein ~~a~~ the proximal retention area of the braiding exhibits a flaring toward a proximal
end, and
wherein an edge of the proximal end lies flush with the septum.

2. (Previously Presented) An occlusion device in accordance with claim 1, wherein the
braiding is composed of nitinol or of another shape-memory material.

3. (Previously Presented) An occlusion device in accordance with claim 2, wherein the braiding is formed from a shape-memory polymer, preferably based on a polyanhydride matrix or on polyhydroxycarboxylic acids.

4. (Previously Presented) An occlusion device in accordance with claim 3, wherein the braiding is formed from a shape-memory polymer of a block copolymer form.

5. (Currently Amended) An occlusion device in accordance with claim 1, wherein the braiding tapers to a diameter which is suitable for delivery by ~~of~~ one of a plurality of catheters used in the intravascular surgical procedure.

6. (Currently Amended) An occlusion device in accordance with claim 1, wherein a proximal retention area of the braiding exhibits a flattened tulip-shaped ~~flared~~ contouring to the proximal end.

7. (Previously Presented) An occlusion device in accordance with claim 1, wherein the proximal retention area of the braiding exhibits a bell-shaped flared contouring to the proximal end.

8. (Currently Amended) An occlusion device in accordance with claim 1, wherein the wires or threads of the braiding at the open end of the proximal retention area are looped back to

~~the~~ a closed end of the distal retention area and secured at the distal retention area ~~there~~ in ~~a~~ the holder disposed in the distal retention area.

9. (Previously Presented) An occlusion device in accordance with claim 1, wherein at least one fabric insert is arranged in crosspiece or in the proximal retention area for complete occluding of the shunt.

10. (Currently Amended) A method of manufacturing an occlusion device comprising:
a) ~~configuring a funnel-shaped hollow braiding, whereby~~ by bundling said hollow braiding ~~is bundled at a first distal end;~~
~~and allowing remains open on an opposite second proximal end to remain open; and~~
b) ~~forming a proximal retention area at the open second end, and~~ a distal retention area at the bundled first end, and
interposing a cylindrical crosspiece between said proximal and said distal retention areas,
wherein said proximal retention area of said braiding is flared towards the proximal end.

11. (Previously Presented) The method in accordance with claim 10, further comprising configuring a holder at the bundled distal end of said funnel-shaped hollow braiding.

12. (Currently Amended) The method in accordance with claim 10, wherein the wires and threads of the braiding at ~~the~~ an outer edge of the flattened tulip shape of the open end of the

proximal retention area are looped back to ~~the~~ a closed end of the distal retention area and are bundled and secured there in the holder.

13. (Previously Presented) The method in accordance with claim 10, wherein the step of forming retention areas and crosspiece includes a molding and/or heat treatment.

14. (Currently Amended) The method in accordance with claim 10, wherein a funnel-shaped hollow braiding structure is produced such that the thin wires or threads that ~~constitute~~ comprise finished braiding are intertwined at the proximal open end of the braiding when the ~~the~~ funnel-shaped hollow braiding is formed.

15. (New) An occlusion device in accordance with claim 1, wherein the proximal retention area is flattened against a lateral edge of the septum.